

Title (en)  
EXTRACTION SYSTEM FOR WELDING APPARATUSES USING A COOLING ELEMENT

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**EP 0433586 A3 19911211 (DE)**

Application  
**EP 90119236 A 19901007**

Priority  
DE 3942105 A 19891220

Abstract (en)  
[origin: EP0433586A2] The present invention relates to an extraction system for welding appliances cooled by a coolant, especially water-cooled spot-welding tongs, having a connected forward-flow line (1) and a connected return-flow line (2), the forward flow (1) and return flow (2) being connected to one another within the welding appliance, and having a respective shut-off cock arranged in the forward flow and in the return flow and an extraction device connected to the forward flow and to the return flow. The extraction device consists of a feed cylinder/piston unit (12) which is connected to the forward-flow line (1) between the shut-off cock (8) and the welding appliance (3) and the piston (14) of which is movable by means of a connected drive device (16).

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IPC 8 full level  
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Citation (search report)  
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